

## ABSTRACT

A bus system and an imager for transferring signals from a plurality of signal streams to an output includes a plurality of signal buses in parallel and a control system. The control system multiplexes the signals from two or more of the plurality of signal streams onto two or more of the plurality of signal buses and allows the signals to substantially charge each of the two or more of the plurality of signal buses before demultiplexing the signals to the output. A method for transferring signals includes multiplexing signals on to two or more of a plurality of signal buses and allowing the signals to substantially charge each of the two or more of the plurality of signal buses before demultiplexing the signals to an output.